DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

WM. J. HARRIS, DIRECTOR

BULLETIN 123

TELEPHONES AND TELEGRAPHS

1912



WASHINGTON
GOVERNMENT PRINTING OFFICE
1914

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LETTER OF TRANSMITTAL.

DEPARTMENT OF COMMERCE,

BUREAU OF THE CENSUS,

Washington, D. C., May 16, 1914.

SIR:

I have the honor to transmit herewith a series of tables presenting the principal data in regard to telephones and telegraphs, to be published as a bulletin for the census of these industries which covered the calendar year 1912.

These tables do not present in full detail all of the results of the census. It is the intention to issue later a full detailed report which will contain analytical text discussing the statistics and giving information in regard to the development of the industries. The bulletin is published at this time in order to distribute the important facts at an earlier date than they would be available if the publication was delayed until the final report is finished.

This census was taken in accordance with the provisions of the act of Congress of June 7, 1906, amendatory of section 7 of the act approved March 6, 1902, which provides that the statistics shall be collected every five years. This bulletin was prepared under the supervision of Mr. W. M. Steuart, chief statistician for manufactures.

Very respectfully,

Director of the Census.

Hon. WILLIAM C. REDFIELD, Secretary of Commerce.

TELEPHONES

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(7)

TELEPHONES.

Classes of telephone systems included.—The statistics for telephones cover all systems whether operated on a commercial, mutual, or cooperative basis, and also all farmer or rural lines. They do not include private lines used exclusively for communication between different rooms or departments of manufacturing or mercantile establishments, hotels, or private residences, unless connected with lines elsewhere through a private or branch exchange. Systems operated by Federal, state, or municipal governments for communication between different bureaus or offices are not included, nor those owned or leased by steam or electric railroads and operated by them for their own exclusive use. No effort was made to secure reports for systems in Alaska, Hawaii, Porto Rico, or the Philippine Islands. The scope of the inquiry corresponds with the censuses of 1902 and 1907; therefore the totals for the three censuses are comparable except as hereinafter indicated.

Statistics collected at prior censuses concerning the financial transactions of the small systems and farmer lines were very unsatisfactory. No financial statistics were collected at the census of 1912 for any companies or systems that reported an annual income of less than \$5,000, and such companies were required to report only the miles of wire and number of telephones in use. In all tables presenting statistics for prior censuses the figures for 1907 have been arranged to bring them into comparison with those for 1912. It was impossible to readjust the figures for the census of 1902; therefore those for that census are not strictly comparable with either 1907 or 1912. The absence of financial data for some companies makes it necessary in presenting the statistics to divide the companies and systems into two groups. The first group includes all companies reporting an annual income of \$5,000 or more, and the second group consists principally of the farmer or rural lines and small mutual systems, and those operated by associations or individuals. It also includes the small commercial companies.

In addition to the separation according to size of company, the statistics reported by the American Telephone and Telegraph Company and its subsidiary companies, commonly known as the "Bell Telephone System," are presented separately and in comparison with the totals for "All other systems."

Period covered.—The statistics for the companies and systems reporting an annual income of \$5,000 and over relate to the year ending December 31, 1912, or the business year of each company most nearly conform-

ing thereto. The number of telephones and miles of wire and the statistics contained in the balance sheet are reported as of the last day of the business year covered by the return of each company. The number of telephones and miles of wire reported by the companies and systems reporting an income of less than \$5,000 relate to December 1, 1912.

The statistics do not represent a full year's operations for every company reported, as many systems were installed, a number abandoned, and many absorbed by or consolidated with other companies during the year 1912. Moreover, the rapid advance being made in the industry necessitates a constant change in the number of telephones in use, and the numbers given in the annual reports of many companies do not agree with the number reported to the census for the date on which its report was obtained. These conditions should be considered in comparing the census figures with those compiled for other purposes.

Limitations of the statistics.—As previously stated, complete data for all systems are confined to the miles of wire and the number of telephones in use. Statistics of capitalization, income, expenses, number of persons employed, the amount paid in salaries and wages, and other features presented in detail were secured only from such companies as showed an annual income of \$5,000 or more. In some cases, even these companies did not have books from which exact data for all inquiries could be obtained, and it was necessary to secure estimates.

Uniform systems of accounts, which became effective January 1, 1913, were provided for telephone companies by the Interstate Commerce Commission under the provision of the act of Congress to regulate commerce as amended in 1910, and future presentations of census statistics may be affected thereby.

Where systems were operated in more than one state, it was impossible in compiling the statistics to assign to each state the amount of capital, income, expenses, and other items incident to the operation of the system, hence the miles of wire and the number of telephones only were segregated by states for such companies, all other items being credited to the state in which the main or general office is located.

Systems or lines.—The terms "company," "system," and "line" are frequently used as synonymous terms. They represent a statistical unit the connotation of which varies slightly to meet the requirements of the different methods of bookkeeping of the various companies and the practice of the office in

the compilation of the data. As a rule, a distinct ownership marks the separation of the statistical units and all exchanges and lines operated under the same ownership are counted as one system. Where several lines are combined under one ownership or several properties have been brought under one management by purchase or stock control, they are counted as one system. The subsidiary companies of the Bell Telephone System and other large companies which furnished separate reports for their subsidiary companies, are, of course, counted as separate units. The number of systems in the report, therefore, represents only the number of separate ownerships reporting an annual income of \$5,000 or more, without regard to the character of the ownership.

The statistics are presented in the following tables. Table 1.—All systems and lines—Miles of wire, number of telephones, and estimated number of messages or talks, classified as the Bell Telephone System and all other systems: 1912, 1907, and 1902.—The figures given for messages for 1907 and 1912 are confined to those for systems reporting an annual income of \$5,000 or more, only the miles of wire and the number of telephones being reported for the smaller companies. In 1902 they include messages for all systems operating switchboards. Therefore the figures in this table should not be used to compute the average number of messages per telephone or other unit of measurement.

Table 2.—All systems and lines—Miles of wire, number of telephones, estimated number of messages or talks, population, and number of telephones per 1,000 of population, by geographic divisions and states: 1912, 1907, and 1902.—This table shows the magnitude and relative importance of the telephone industry in each geographic division and state. The states with the largest population naturally contain the greatest amount of telephone equipment. The average number of telephones for each 1,000 of population in the United States as a whole increased from 72 in 1907 to 91 in 1912. Iowa shows the highest average, 171 for 1912, followed by California with 168 and Nebraska with 165.

Table 3.—All systems and lines—Per cent of increase in miles of wire, number of telephones, and estimated number of messages or talks, by geographic divisions: 1902 to 1912.—Percentages of increase in the totals shown in Table 2 are here given by geographic divisions for the decade and for each five-year period. The percentages show that there has been a rapid development of the telephone service in all sections of the country. The largest percentages of gain in miles of

wire and number of telephones are shown for the West South Central, Mountain, and Pacific divisions. The large percentages are due not only to the development in these states, but to the fact that the totals on which they are based are smaller than those for the more populous states.

Table 4.—All systems and lines—Per cent distribution of miles of wire, number of telephones, and estimated number of messages or talks, by geographic divisions: 1912, 1907, and 1902.—The proportion of wire, telephones, and messages or talks in each geographic division of the total reported by all systems for the United States is presented in this table for each of the three censuses.

Table 5.—All systems and lines—Miles of wire, number of telephones, and estimated number of messages or talks, classified as the Bell Telephone System and all other systems, by geographic divisions and states: 1912.—In this table the wire, telephones, and messages or talks of all systems are separated into those for the Bell Telephone System and all other systems, both groups being shown by geographic divisions and states.

Table 6.—Telephone systems reporting an annual income of \$5,000 or more, classified as the Bell Telephone System and all other systems—Traffic: 1912, 1907, and 1902.—The traffic details are summarized in this table for both the Bell Telephone System and for all other systems reporting an annual income of \$5,000 or more. The number of telephones, with estimated number of messages or talks annually, divided into local exchange and long distance or toll, are given with average per telephone and percentages of increase for all three censuses.

The figures given for 1902 are not strictly comparable with those for 1912 and 1907, as they include a large number of systems that had an annual income of less than \$5,000.

Table 7.—Telephone systems reporting an annual income of \$5,000 or more—Estimated number of messages or talks and the number of messages or talks per telephone per day, by geographic divisions and states: 1912, 1907, and 1902.—The estimate of the number of messages or talks was furnished by the companies. The decrease shown for some states is explained by the companies stating that an error was evidently made in the estimate for the preceding census. As switchboards are operated to their full capacity, as a rule, 325 days during the year, this number has been used as the divisor in computing the average number of messages per day. The statistics are for all three censuses.

Table 8.— Telephone systems reporting an annual income of less than \$5,000, including farmer or rural lines-Number of systems, miles of wire, and number of telephones, by geographic divisions and states: 1912 and 1907.—This table summarizes the equipment by geographic divisions and states for systems reporting an annual income of less than \$5,000. The figures are for two censuses only, 1912 and 1907, those for 1902 not being available. Farmer or rural lines are included.

Table 9.—Telephone systems reporting an annual income of \$5,000 or more—Income and expenses: 1912 and 1907.—During the period from 1907 to 1912 a number of the telephone companies changed and improved their methods of accounting. These changes necessitated segregating some items in the income and expense accounts and combining others. The changes have been so numerous that it is impossible to make a correct comparison of the detailed income accounts reported at the two censuses. By consolidating certain items a fairly satisfactory abbreviated comparative income account has been constructed, and is presented in Table 9. This table shows the percentage of increase in each item of income and expenses, and also the relative importance of each item as reported for 1907 and 1912. It appears from this table that the total expenses, including taxes and interest, have increased by 50.4 per cent, while the total income increased 44.4 per cent. Of the three items reported for income the largest per cent of increase, 69.6 per cent, is shown for receipts from leased lines, wires, and conduits, of which much the larger amount was, of course, reported for the Bell Telephone System. The net income after paying operating expenses and fixed charges increased by 24.5 per cent, and the dividends declared during the year increased by 45.5 per cent. There was no great change in the relative importance of the various items of income and expenses. The greatest change in these items appears for interest, which formed 11.8 per cent of the total expenses for 1907 as compared with 9.9 per cent for 1912.

Table 10.—Telephone systems reporting an annual income of \$5,000 or more—Income and expenses: 1912.— The impossibility of constructing a detailed comparative income and expense account as stated in connection with Table 9 makes it desirable to give a detailed table for 1912. In addition to showing the actual amounts reported by telephone companies for the different items of income and expenses, this table also shows the relative importance of each item. It is interesting only that it shows further details than was possible to present in Table 9.

Table 11.—Telephone systems reporting an annual income of \$5,000 or more—Employees, salaries, and wages: 1912, 1907, and 1902.—This table gives separate totals for the number and salaries of salaried employees, the number and wages of male and female operators, and the number and wages of all other wage earners.

The table also gives the per cent that males and females, respectively, form of the total operators and the percentage of increase for each class of employees. The relative importance of females in the operative force has been constantly increasing, and in 1912 they formed 98 per cent of the operators.

Table 12.—Telephone systems reporting an annual income of \$5,000 or more—Comparative summary: 1912 and 1907.—This is a summary of the principal statistics for systems or lines reporting an annual income of \$5,000 or more, classified as the Bell Telephone System and all other systems. Comparative statistics of this character are not available for 1902.

Table 13.—Telephone and telegraph systems—Comparative summary: 1912 and 1907.—A comparison of the statistics of land and ocean telegraph and the telephone systems for 1912 shows that the mileage of wire devoted to the transmission of telephone messages is more than eleven times as great as that used for telegraph purposes, while in 1907 it was only eight times greater.

The capital invested in telephone companies in 1912 was more than five times the sum reported by telegraph companies, both land and ocean. The statistics do not include those of systems in Alaska or in the insular possessions.

TABLE 1.—ALL SYSTEMS AND LINES—MILES OF WIRE, NUMBER OF TELEPHONES, AND ESTIMATED NUMBER OF MESSAGES OR Talks, Classified as the Bell Telephone System and All Other Systems: 1912, 1907, and 1902.

	Year.	Miles of wire.	Number of telephones.	Estimated number of mes- sages or talks. ²
United States	1912	20, 248, 326	8,729,592	3 13, 735, 658, 245
	1907	12, 999, 364	6,118,578	3 10, 400, 433, 958
	1902	4, 900, 451	2,371,044	4 5, 070, 554, 553
Bell Telephone System	1912	15, 133, 186	5,087,027	9, 133, 226, 836
	1907	8, 947, 266	3,132,063	6, 401, 044, 799
	1902	3, 387, 924	1,317,178	3, 074, 530, 060
All other systems	1912	5, 115, 140	3,642,565	8 4,602,431,409
	1907	4, 052, 098	2,986,515	8 3,999,389,159
	1902	1, 512, 527	1,053,866	4 1,996,024,493

¹ Exclusive of 1,565 miles in Canada in 1912, and 5 miles in 1907.

The number of messages reported by the Bell Telephone System includes only completed calls, while the figures for all other companies may include some original calls not necessarily completed; such as calls that the operator reports as "Line busy," or "Does not answer."

Bxclusive of systems reporting an annual income of less than \$5,000.

Exclusive of independent farmer or rural lines.

TABLE 2.—ALL SYSTEMS AND LINES—MILES OF WIRE, NUMBER OF TELEPHONES, ESTIMATED NUMBER OF MESSAGES OR TALKS, POPULATION, AND NUMBER OF TELEPHONES PER 1,000 OF POPULATION, BY GEOGRAPHIC DIVISIONS AND STATES: 1912; 1907, AND 1902.

1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902	20, 248, 326 12, 999, 364 4, 900, 451 1, 545, 252 997, 865 408, 337 5, 035, 019 3, 056, 193 1, 261, 843 4, 645, 218 3, 308, 021 1, 466, 145 2, 932, 578 2, 043, 383 588, 290 1, 121, 458 876, 173 328, 022 977, 694 714, 871 305, 089 1, 312, 553 7, 99, 606 236, 884 558, 450 364, 605 88, 846 2, 120, 104 839, 647 216, 995	8, 720, 592 6, 118, 578 2, 371, 044 625, 488 410, 269 106, 167 1, 782, 145 1, 252, 903 483, 054 2, 378, 257 712, 390 740, 059 1, 621, 523 1, 251, 555 399, 855 531, 402 365, 764 146, 765 337, 292 243, 234 112, 851 543, 102 342, 255 114, 969 226, 652 154, 061 48, 067 683, 731 386, 147 159, 287	13, 735, 658, 245 10, 400, 433, 958 5, 070, 554, 553 810, 524, 037 572, 523, 863 298, 529, 134 2, 422, 868, 241 1, 947, 571, 139 909, 887, 064 4, 025, 906, 387 3, 067, 416, 613 1, 733, 817, 138 2, 238, 770, 606 1, 684, 198, 498 712, 440, 737 869, 439, 943 749, 939, 984 353, 559, 870 662, 046, 512 731, 000, 908 377, 7950, 187 1, 079, 517, 948 646, 501, 299 303, 547, 439 435, 366, 129 299, 270, 886 102, 374, 364 1, 191, 218, 442 722, 010, 968 278, 685, 620	95, 545, 336 85, 532, 761 78, 576, 436 6, 767, 513 6, 111, 093 5, 769, 477 20, 179, 371 17, 667, 920 16, 008, 719 18, 757, 149 17, 663, 394 16, 462, 313 11, 926, 513 11, 363, 251 10, 624, 893 12, 586, 562 11, 574, 988 10, 770, 414 8, 602, 701 8, 330, 783 7, 768, 517 9, 288, 200 8, 037, 775 6, 883, 018 2, 847, 946 1, 962, 698 1, 763, 813 4, 589, 381 2, 790, 861 2, 525, 272	32 14 13 3 2 1 1 3 3 2 1 1 3 3 3 2 1 1 3 3 6 1 1 3 3 2 1 1 3 6 1 1 3 6 1 1 1 3 6 1 1 1 3 6 1 1 1 3 6 1 1 1 3 6 1 1 1 3 6 1 1 1 3 6 1 1 1 1
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1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902	1, 466, 145 2, 932, 578 2, 043, 383 588, 280 1, 121, 458 876, 173 328, 022 977, 694 714, 871 305, 089 1, 312, 553 799, 006 236, 884 558, 460 364, 605 88, 846 2, 120, 104 839, 647	740, 059 1, 621, 523 1, 251, 555 399, 855 531, 402 365, 764 146, 765 337, 292 243, 234 112, 851 543, 102 342, 255 114, 989 226, 652 154, 061 48, 067 683, 731 386, 147	2, 238, 770, 606 1, 664, 198, 498 712, 440, 737 869, 439, 943 749, 939, 984 353, 559, 870 662, 046, 512 731, 000, 908 377, 950, 187 1, 079, 517, 948 646, 501, 299 303, 547, 439 435, 366, 129 290, 270, 686 102, 374, 364 1, 191, 218, 442 722, 010, 968	16, 462, 313 11, 926, 513 11, 363, 251 10, 624, 893 12, 586, 562 11, 574, 988 10, 770, 414 8, 602, 701 8, 330, 783 7, 768, 517 9, 288, 200 8, 037, 775 6, 883, 018 2, 847, 946 1, 992, 696 1, 763, 813 4, 589, 381 2, 790, 861	9 4 13 111 3 3 2 1 1 5 4 1 1 3 8 7 2 2 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902	2, 932, 578 2, 043, 383 588, 290 1, 121, 458 875, 173 328, 022 977, 694 714, 871 305, 089 1, 312, 553 799, 606 236, 884 558, 450 364, 605 88, 846 2, 120, 104 839, 647	1, 621, 523 1, 251, 555 389, 855 531, 402 385, 764 146, 765 337, 292 243, 234 112, 851 543, 102 342, 255 114, 989 226, 652 154, 061 48, 067 683, 731 386, 147	2, 238, 770, 606 1, 664, 198, 498 712, 440, 737 869, 439, 943 749, 939, 984 353, 559, 870 662, 046, 512 731, 000, 908 377, 950, 187 1, 079, 517, 948 646, 501, 299 303, 547, 439 435, 366, 129 290, 270, 686 102, 374, 364 1, 191, 218, 442 722, 010, 968	11, 926, 513 11, 363, 251 10, 624, 893 12, 586, 562 11, 574, 988 10, 770, 414 8, 602, 701 8, 330, 783 7, 768, 517 9, 288, 200 8, 037, 775 6, 883, 018 2, 847, 946 1, 992, 696 1, 763, 813 4, 589, 381 2, 790, 861	131 34 431 32 1 55 441 887 22
1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902	1,121,458 875,173 326,022 977,694 714,871 305,089 1,312,553 799,006 236,884 558,450 364,605 88,846 2,120,104 839,647	531, 402 385, 764 146, 765 337, 292 243, 234 112, 851 543, 102 342, 255 114, 989 226, 652 154, 061 48, 067 683, 731 386, 147	869, 439, 943 749, 939, 984 353, 559, 870 662, 046, 512 731, 000, 908 377, 950, 187 1, 079, 517, 948 646, 501, 299 303, 547, 439 435, 366, 129 299, 270, 686 102, 374, 364 1, 191, 218, 442 722, 010, 968	12, 586, 562 11, 574, 988 10, 770, 414 8, 602, 701 8, 330, 783 7, 768, 517 9, 288, 200 8, 037, 775 6, 883, 018 2, 847, 946 1, 992, 696 1, 763, 813 4, 589, 381 2, 790, 861	3 2 1 1 5 5 4 1 1 3 2 1 1 1 3
1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902	328, 022 977, 694 714, 871 305, 089 1, 312, 553 799, 606 236, 884 558, 450 364, 605 88, 846 2, 120, 104 839, 647	337, 292 243, 234 112, 851 543, 102 342, 255 114, 939 226, 652 154, 061 48, 067 683, 731 386, 147	662, 046, 512 731, 000, 908 377, 950, 187 1,079, 517, 948 646, 501, 299 303, 547, 439 435, 366, 129 299, 270, 686 102, 374, 364 1,191, 218, 442 722, 010, 968	8,602,701 8,330,783 7,708,517 9,288,200 8,037,775 6,883,018 2,847,946 1,902,696 1,763,813 4,589,381 2,790,861	3 3 3 1 4 1 5 4 1 1 3 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1902 1912 1907 1902 1912 1907 1902 1912 1907 1902	305,089 1,312,553 799,606 236,884 558,450 364,605 88,846 2,120,104 839,647	112, 851 543, 102 342, 255 114, 939 226, 652 154, 061 48, 067 683, 731 386, 147	377, 950, 187 1,079, 517, 948 646, 501, 299 303, 547, 459 435, 366, 129 299, 270, 686 102, 374, 364 1,191, 218, 442 722, 010, 968	7,768,517 9,288,200 8,037,775 6,883,018 2,847,946 1,992,696 1,763,813 4,589,381 2,790,861	54 11 87 22
1907 1902 1912 1907 1902 1912 1907 1902	799, 606 236, 884 558, 450 364, 605 88, 846 2, 120, 104 839, 647	342, 255 114, 939 226, 652 154, 061 48, 067 683, 731 386, 147	303,547,439 435,366,129 299,270,686 102,374,364 1,191,218,442 722,010,968	2,847,946 1,992,696 1,763,813 4,589,381 2,790,861	8 7 2 2 14 13
1907 1902 1912 1907 1902	364,605 88,846 2,120,104 839,647	154,061 48,067 683,731 386,147	299, 270, 686 102, 374, 364 1,191, 218, 442 722, 010, 968	4,589,381 2,790,861	14 13
1907 1902	839, 647	386,147	722,010,968	4,589,381 2,790,861	13
1912	220,000			-,,	
	(!	1			
1907 1902	141,687 94,073 25,451	68,914 53,134 14,070	84,033,152 73,197,982 21,923,915	753, 085 717, 832 700, 072	
1912 1907 1902	75, 917 49, 448 18, 390	40,017 28,920 9,949	49, 984, 600 36, 537, 513 16, 987, 012	434,818 436,128 418,602	
1912 1907	54,756 36,419	40,142 30,833	48, 306, 101 35, 666, 768	358, 710 351, 495 345, 885	1
1902 1912 1907	16,379 863,426 534,220	12,151 329,992 209,383	19, 075, 847 401, 817, 540 298, 824, 440	3,491,888 3,083,013	
1902 1912	257, 461 409, 466 283, 705	96,512 146,423 87,999	183, 115, 320 226, 382, 644 128, 297, 160	2,917,796	
1902	90, 656	33, 485	57, 190, 040	1,387,122	3
1912 1907 1902	2,790,060 1,630,076 623,625	970, 449 685, 512 247, 340	1,297,849,047 1,034,651,594 360,098,123	9,526,146 8,386,673 7,533,011	10 8 3
1912 1907	644,984 338,608	185,632 116,988			(5
1912 1907	1,599,975 1,087,509	626,064	932, 707, 683	1	
1902	501,601	186, 734	493, 617, 718	6, 505, 887	į
1912 1907 1902	1,161,032 986,053 515,892	631, 206 495, 636 224, 083	1,301,503,565 1,014,222,376 558,707,801	4, 903, 439 4, 497, 198 4, 252, 372	1:
1912 1907	667, 839 530, 044	354,550 289,452	583, 621, 519 498, 560, 085	2, 742, 117 2, 743, 305	1:
1912 1907	1,689,074 986,949	807,253 558,585	1,105,751,431 833,749,155	5.821.305	1: 10
1912 1907	728, 184 494, 612	335,074 209,842	694, 363, 258 413, 557, 846	2,897,207	1:
1902 1912 1907	197, 863 399, 089	95, 415 250, 174	237, 695, 112 340, 666, 614		1(6
	1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902 1912 1907 1902	1902 90,656 1912 2,790,060 1907 1,630,076 1902 623,625 1912 644,984 1907 338,608 1902 136,617 1912 1,599,975 1907 1,087,509 1902 501,601 1912 1,161,032 1907 986,053 1902 530,044 1902 213,157 1912 1,689,074 1902 428,301 1912 728,184 1907 1902 428,301 1912 1,999,089 1907 310,363 1912 399,089 1907 310,363 1912 399,089 1907 310,363 1912 399,089 1907 310,363 1907 310,363 1912 1,929	1902 90,656 33,485 1912 2,790,060 970,449 1907 1,630,076 685,512 1902 623,625 247,340 1912 644,984 185,632 1907 338,608 116,988 1902 136,617 48,980 1912 1,599,975 626,064 1907 1,087,509 450,403 1902 501,601 186,734 1912 1,181,032 631,206 1907 986,053 495,633 1902 515,892 224,083 1902 515,892 354,550 1907 530,044 289,452 1902 213,157 136,561 1912 1,689,074 807,253 1907 986,949 558,555 1902 423,301 221,008 1912 78,184 335,074 1902 197,863 35,45 1907 310,363 158,875 1907	1902 90,656 33,485 57,190,040 1912 2,790,060 970,449 1,297,840,047 1907 1,630,076 685,512 1,034,651,594 1902 623,625 247,340 360,098,123 1912 644,984 185,632 192,311,511 1907 338,608 116,988 138,914,642 1902 136,617 48,980 56,171,223 1912 1,599,975 626,064 932,707,683 1907 1,087,509 450,403 774,004,903 1902 501,601 186,734 493,617,718 1912 1,161,032 631,206 1,301,503,565 1907 986,053 495,633 1,014,222,376 1902 515,802 224,083 558,707,801 1912 667,839 354,550 583,621,519 1907 530,044 289,452 498,660,085 1902 213,157 136,561 294,657,565 1902 213,157 136,561 294,657,565	1902 90,656 33,485 57,190,040 1,387,122 1912 2,790,080 970,449 1,297,840,047 9,526,146 1907 1,630,076 685,512 1,034,651,594 8,386,673 1902 623,625 247,340 300,098,123 7,533,011 1912 644,984 185,632 192,311,511 2,683,302 1907 338,608 116,988 138,914,642 2,248,332 1902 130,017 48,980 56,171,223 1,969,821 1912 1,599,975 626,064 932,707,683 7,969,916 1907 1,087,509 450,403 774,004,903 7,032,915 1902 501,601 186,734 493,617,718 6,505,887 1912 1,161,032 631,206 1,301,503,565 4,903,439 1907 986,053 495,633 1,014,222,376 4,497,198 1902 515,802 224,083 558,707,801 4,252,372 1912 667,839 354,550 583,621,519 <t< td=""></t<>

¹ Exclusive of farmer or rural lines in 1902 and systems reporting an annual income of less than \$5,000 in 1907 and 1912.

2 Official estimates of the Bureau of the Census.

TABLE 2.—ALL SYSTEMS AND LINES—MILES OF WIRE, NUMBER OF TELEPHONES, ESTIMATED NUMBER OF MESSAGES OR TALKS, POPULATION, AND NUMBER OF TELEPHONES PER 1,000 OF POPULATION, BY GEOGRAPHIC DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

DIVISION AND STATE.	Cen- sus.	Miles of wire.	Number of telephones.	Estimated number of messages or talks.	Population. ²	Telephones per 1,000 of popu- lation.
WEST NORTH CENTRAL:						14.14.14.14
Minnesota	. 1912	653,479	272,359	418, 720, 464	2, 148, 235	127
	1907	387,758	171,479	274, 434, 452	2, 071, 318	83
	1902	137,274	63,192	113, 124, 262	1, 822, 106	35
Iowa	1912	504, 101	380, 294	471, 126, 059	2, 223, 189	171
	1907	360, 884	332, 545	336, 184, 981	2, 201, 331	151
	1902	147, 586	138, 400	193, 054, 738	2, 301, 427	60
Missouri	1912	874, 334	404, 150	655, 616, 330	3,335,080	121
	1907	640, 560	312, 527	468, 138, 352	3,405,901	92
	1902	177, 072	103, 155	242, 309, 227	3,187,031	32
North Dakota	1912	76, 174	51, 241	49, 861, 643	634,731	81
	1907	61, 728	34, 087	39, 874, 764	487,890	70
	1902	9, 532	6, 762	14, 106, 733	344,778	20
South Dakota	. 1912	73, 921	65, 858	47, 881, 574	624,658	105
	1907	66, 946	48, 405	60, 548, 810	476,631	101
	1902	10, 877	10, 387	17, 919, 604	429,808	24
Nebraska	1912	393, 319	201, 689	291, 615, 175	1,220,371	165
	1907	257, 812	152, 279	246, 047, 837	1,068,849	142
	1902	53, 285	36, 766	73, 227, 030	1,087,526	34
Kansas South Atlantic:	1912	357, 250	245, 932	303, 949, 361	1,740,249	141
	1907	267, 695	200, 233	238, 969, 302	1,651,331	121
	1902	52, 664	41, 193	58, 699, 143	1,452,217	28
Maryland, Delaware, and District of Columbia	. 1912	403,655	147, 246	177,755,722	1,868,374	79
	1907	312,282	110, 282	165,995,216	1,798,652	61
	1902	107,827	36, 383	70,981,973	1,693,019	21
Virginia	. 1912	161, 136	76, 652	164, 421, 931	2, 107, 998	36
	1907	108, 588	55, 541	115, 354, 885	1, 992, 925	28
	1902	46, 678	25, 762	65, 494, 626	1, 899, 440	14
West Virginia.	1907 1902	112, 954 99, 844 56, 812	80, 251 62, 144 22, 801	103, 255, 136 109, 065, 223 41, 605, 891	1,279,781 1,096,006 998,004	63 57 23
North Carolina.	1912	109, 110	65, 152	90, 831, 013	2,276,165	29
	1907	83, 251	37, 104	80, 667, 891	2,086,912	18
	1902	26, 120	17, 036	36, 485, 398	1,948,984	9
South Carolina	. 1912	73,712	33, 239	68, 170, 380	1, 554, 554	21
	1907	50,226	20, 911	51, 558, 785	1, 472, 734	14
	1902	19,445	10, 753	23, 893, 914	1, 378, 150	8
Georgia	. 1912	206, 591	96, 436	206, 631, 042	2, 696, 961	36
	1907	187, 904	62, 260	187, 647, 940	2, 481, 617	25
	1902	54, 301	25, 761	96, 192, 066	2, 298, 713	11
Florida	. 1912	54,300	32,426	58, 374, 719	802, 729	40
	.1907	33,078	17,522	39, 650, 044	646, 142	27
	1902	16,839	8,269	18, 906, 002	554, 104	15
East South Central: Kentucky	1907	352, 544 262, 691	130,751 93,996	287, 807, 892 276, 476, 058	2, 321, 823 2, 349, 152	56 40 21
Tennessee	1907	155, 482 287, 685 202, 505	46, 949 104, 353 71, 130	143, 101, 564 188, 865, 474 231, 218, 675	2, 202, 804 2, 221, 503 2, 197, 785	47 32
Alabama	1902 1912 1907	86,640 152,849 134,337	36, 392 56, 292 40, 481	128, 274, 719 100, 983, 408 102, 736, 572	2,070,354 2,207,283 2,049,407 1,891,755	18 26 20
Mississippi	1907	32, 966 184, 616 115, 338	14, 170 45, 896 37, 627	46, 158, 943 84, 389, 738 120, 569, 603	1,852,092 1,734,439 1,603,604	7 25 22 10
WEST SOUTH CENTRAL:	1902	30,001	15,340	60, 414, 961	1,603,604	10
Arkansas	1912	141, 014	68, 303	124, 445, 991	1,633,238	42
	1907	98, 932	49, 576	71, 950, 886	1,439,910	34
	1902	24, 273	16, 928	36, 716, 883	1,347,934	13
Louisiana	1907 190 2	138, 905 101, 325 49, 588	46,602 35,692 17,543	101, 597, 617 120, 647, 366 68, 083, 915	1,717,834 1,565,752 1,434,033	27 23 12
Oklahoma	1912	211, 175	116,217	163, 999, 696	1,850,987	63
	1907	104, 780	68,125	108, 725, 669	1,414,177	48
	1902	21, 498	15,732	31, 667, 627	897,748	18
Texas	1912	821,459	311,980	689, 474, 644	4,086,141	76
	1907	494,569	188,862	345, 177, 378	3,617,936	52
	1902	141,525	64,736	167, 079, 014	3,203,303	20

¹ Exclusive of farmer or rural lines in 1902 and systems reporting an annual income of less than \$5,000 in 1907 and 1912. ² Official estimates of the Bureau of the Census.

TABLE 2.—ALL SYSTEMS AND LINES—MILES OF WIRE, NUMBER OF TELEPHONES, ESTIMATED NUMBER OF MESSAGES OR TALKS, POPULATION, AND NUMBER OF TELEPHONES PER 1,000 OF POPULATION, BY GEOGRAPHIC DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

DIVISION AND STATE.	Cen- sus.	Miles of wire.	Number of telephones.	Estimated number of messages or talks.1	Population.2	Telephones per 1,000 of popu- lation.
Mountain;						
Montana	1912	54, 259	35, 537	74, 199, 468	405, 734	88
	1907	28, 386	17, 168	18, 869, 410	313, 615	55
	1902	8, 609	5, 451	11, 352, 976	266, 120	20
Idaho	1912	58, 205	29,454	45, 634, 700	362, 229	81
	1907	37, 364	16,394	24, 883, 595	213, 028	77
	1902	6, 366	3,886	6, 451, 762	176, 416	22
Colorado	1912	261, 987	90, 397	165, 041, 703	857,016	105
	1907	173, 633	65, 908	138, 203, 561	628,216	105
	1902	52, 115	24, 533	60, 258, 533	559,715	44
New Mexico	1912	22,492	10, 346	20, 174, 439	356, 819	29
	1907	12,506	6, 653	12, 548, 942	219, 830	30
	1902	3,366	2, 510	4, 297, 920	202, 316	12
Arizona	1912	18, 621	11,224	11, 573, 427	222, 563	50
	1907	10, 277	6,203	10, 379, 750	147, 214	42
	1902	3, 890	3,264	5, 072, 727	129, 869	25
Utah and Wyoming	1912	133,094	44,010	110, 244, 799	552, 867	80
	1907	92,396	37,134	87, 596, 483	428, 458	87
	1902	13,106	7,258	13, 531, 312	388, 046	19
Nevada	1912	9,792	5,684	8,497,593	90,718	62
	1907	10,043	4,601	6,788,945	42,335	110
	1902	1,394	1,165	1,409,134	41,331	28
Pacific:		. }	ĺ			
Washington	1912	487,079	150,016	295, 273, 362	1,281,508	117
	1907	208,810	98,846	200, 184, 465	630,712	157
	1902	43,027	31,447	64, 623, 982	558,055	56
Oregon	1912	272, 481	99,713	170,065,267	730, 736	136
	1907	87, 723	49,629	83,833,537	484, 938	102
	1902	29, 531	21,190	35,777,238	429, 380	49
California	1912	1,360,544	434,002	725, 879, 813	2,577,137	168
	1907	543,114	237,672	437, 992, 966	1,675,211	142
	1902	144,437	106,650	178, 284, 400	1,537,837	69

¹ Exclusive of farmer or rural lines in 1902 and systems reporting an annual income of less than \$5,000 in 1907 and 1912. ² Official estimates of the Bureau of the Census.

TABLE 3.—ALL SYSTEMS AND LINES—PER CENT OF INCREASE IN MILES OF WIRE, NUMBER OF TELEPHONES, AND ESTIMATED NUMBER OF MESSAGES OR TALKS, BY GEOGRAPHIC DIVISIONS: 1902 TO 1912.

		PER CENT OF INCREASE.1										
DIVISION.	Mil	es of w	ire.	Number of telephones.			Estimated num- ber of messages or talks. ²					
	1902- 1912	1907- 1912	1902- 1907	1902- 1912	1907- 1912	1902- 1907	1902- 1912	1907- 1912	1902- 1907			
United States	313. 2	55.8	165.3	268. 2	42.7	158.1	170.9	32.1	105.1			
New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. Mountain. Pacific.	278. 4 299. 0 216. 8 398. 5 241. 9 220. 5 454. 1 528. 6 877. 0	40.4 43.5	142. 2 125. 6 247. 3 166. 8 134. 3 237. 6	268. 9 221. 4 305. 5 262. 1 198. 9 372. 5	38.9 29.6 45.3 38.7 58.7	159. 4 131. 4 213. 0 149. 2 115. 5 197. 8	166.3 132.2 214.2 145.9 75.2 255.6	31.2 34.5 15.9 -9.4 67.0	114. 0 76. 9 133. 6 112. 1 93. 4 113. 0			

¹ A minus sign (—) denotes decrease. ² Exclusive of farmer or rural lines in 1902 and systems reporting an annual income of less than \$5,000 in 1907 and 1912.

Table 4.—All Systems and Lines—Per Cent Distribution of Miles of Wire, Number of Telephones, and Estimated Number of Messages or Talks, by Geographic Divisions: 1912, 1907, and 1902.

		PER CENT DISTRIBUTION.									
DIVISION.	Mil	les of w	ire.		um ber lephon		Estimated num- ber of messages or talks.				
	1912	1907	1902	1912	1907	1902	1912	1907	1902		
United States	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. Mountain Pacific.	7.6 24.9 22.9 14.5 5.5 4.8 6.5 2.8 10.5	23.5 25.4 15.7	8.3 25.8 29.9 12.0 6.7 6.2 4.8 1.8 4.4		28.0	7.0 20.4 31.2 16.9 6.2 4.8 4.8 2.0 6.7		5. 5 18. 7 29. 5 16. 0 7. 2 7. 0 6. 2 2. 9 6. 9			

¹ Exclusive of farmer or rural lines in 1902 and systems reporting an annual income of less than \$5,000 in 1907 and 1912.

Table 5.—ALL SYSTEMS AND LINES—MILES OF WIRE, NUMBER OF TELEPHONES, AND ESTIMATED NUMBER OF MESSAGES OR TALKS, CLASSIFIED AS THE BELL TELEPHONE SYSTEM AND ALL OTHER SYSTEMS, BY GEOGRAPHIC DIVISIONS AND STATES: 1912.

		TOTAL.		BELL	TELEPHON É	SYSTEM.	ALL OTHER SYSTEMS.			
DIVISION AND STATE.	Miles of wire.	Number of telephones.	Estimated number of mes- sages or talks. ¹	Miles of wire.	Number of telephones.	Estimated number of mes- sages or talks.	Miles of wire.	Number of telephones.	Estimated number of mes- sages or talks.	
United States	20, 248, 326	8,729,592	13,735,658,245	15, 133, 186	5,087,027	9, 133, 226, 836	5, 115, 140	3,642,565	4, 602, 431, 409	
GEOGRAPHIC DIVISIONS: New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pauific	1,545,252 5,035,019 4,645,218 2,932,578 1,121,458 977,694 1,312,553 558,450 2,120,104	625, 488 1, 782, 145 2, 378, 257 1, 621, 523 531, 402 337, 292 543, 102 226, 652 683, 731	810, 524, 037 2, 422, 868, 241 4, 025, 906, 387 2, 238, 770, 908 869, 439, 943 662, 046, 512 1, 079, 517, 948 435, 366, 129 1, 191, 218, 442	1, 498, 417 4, 227, 908 3, 006, 320 1, 636, 056 886, 897 662, 218 971, 439 498, 564 1, 745, 367	580, 097 1, 355, 352 1, 169, 303 519, 069 340, 227 184, 355 283, 681 177, 617 487, 326	778, 472, 201 1, 756, 522, 790 2, 208, 734, 660 1, 135, 454, 339 678, 091, 893 437, 251, 959 860, 106, 989 372, 292, 039 906, 299, 966	46,835 807,111 1,638,898 1,296,522 234,561 315,476 341,114 59,886 374,737	45, 391 426, 793 1, 218, 954 1, 102, 454 191, 175 152, 937 259, 421 49, 035 196, 405	32, 051, 836 666, 345, 451 1, 817, 171, 727 1, 103, 316, 267 191, 348, 050 224, 794, 553 219, 410, 959 63, 074, 090 284, 918, 476	
New England: Maine. New Hampshire Vermont. Massachusetts. Rhode Island Connecticut.	141,687 75,917 54,756 863,426 102,906 306,560	68,914 40,017 40,142 329,992 41,664 104,759	84,033,152 49,984,600 48,306,101 401,817,540 48,211,556 178,171,088	124,749 69,686 41,503 854,894 102,906 304,679	52,564 33,387 23,818 325,186 41,664 103,478	79,734,699 42,597,908 35,539,241 395,927,259 48,211,556 176,461,538	16,938 6,231 13,253 8,532	16,350 6,630 16,324 4,806	4,298,453 7,386,692 12,766,860 5,890,281 1,709,550	
MIDDLE ATLANTIC: New York New Jersey Pennsylvania	2,790,060 644,984 1,599,975	970,449 185,632 626,064	1,297,849,047 192,311,511 932,707,683	2,565,015 579,281 1,083,612	809,635 161,037 384,680	1,037,894,644 161,925,950 556,702,196	225,045 65,703 516,363	160, 814 24, 595 241, 384	259, 954, 403 30, 385, 561 376, 005, 487	
East North Central: Ohio Indiana Illinois Michigan Wisconsin	1,161,032 667,839 1,689,074 728,184 399,089	631, 206 354, 550 807, 253 335, 074 250, 174	1,301,503,565 583,621,519 1,105,751,431 694,363,258 340,666,614	623,307 378,492 1,204,666 524,172 275,683	251,116 117,897 473,799 193,599 122,892	547, 058, 736 252, 578, 455 713, 993, 119 458, 146, 344 236, 958, 006	537, 725 289, 347 484, 408 204, 012 123, 406	380,090 236,653 333,454 141,475 127,282	754, 444, 829 331, 043, 064 391, 758, 312 236, 216, 914 103, 708, 608	
WEST NORTH CENTRAL: Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	653, 479 504, 101 874, 334 76, 174 73, 921 393, 319 357, 250	272, 359 380, 294 404, 150 51, 241 65, 858 201, 689 245, 932	418,720,464 471,126,059 655,616,330 49,861,643 47,881,574 291,615,175 303,949,361	373,733 296,784 492,739 43,180 17,177 196,615 216,828	99, 093 116, 813 140, 239 17, 328 7, 836 62, 246 75, 514	204, 606, 168 241, 438, 379 322, 331, 011 27, 920, 018 14, 201, 488 128, 625, 549 196, 331, 726	279, 746 207, 317 381, 595 32, 994 56, 744 197, 704 140, 422	173,266 263,481 263,911 33,913 58,022 139,443 170,418	214, 114, 296 229, 687, 680 333, 285, 319 21, 941, 625 33, 680, 086 162, 989, 626 107, 617, 635	
SOUTH ATLANTIC: Delaware. Maryland District of Columbia Virginia. West Virginia. North Carolina. South Carolina. Georgia. Florida		15, 842 84, 801 46, 603 76, 652 80, 251 65, 152 33, 239 96, 436 32, 426	26, 810, 915 104, 008, 861 46, 936, 446 164, 421, 931 103, 255, 136 90, 831, 103 68, 170, 880 206, 631, 042 58, 374, 719	40, 838 223, 170 126, 279 132, 827 64, 255 65, 356 58, 848 149, 889 25, 435	12,648 79,410 46,603 47,497 27,593 27,951 20,926 64,052 13,547	22, 145, 989 101, 210, 919 46, 936, 446 148, 083, 057 52, 420, 225 68, 757, 607 60, 087, 496 151, 675, 074 26, 775, 080	7,794 5,574 28,309 48,699 43,754 14,864 56,702 28,865	3, 194 5, 391 29, 155 52, 658 37, 201 12, 313 32, 384 18, 879	4,664,926 2,797,442 16,338,874 50,834,911 22,073,406 8,082,884 54,955,968 31,599,639	
EAST SOUTH CENTRAL: Kentucky Tennessee. Alabama. Mississippi	352,544 287,685 152,849 184,616	130,751 104,353 56,292 45,896	287, 807, 892 188, 865, 474 100, 983, 408 84, 389, 738	199, 151 232, 979 130, 168 99, 920	51, 185 62, 194 39, 233 31, 743	124,681,052 147,577,363 88,499,665 76,493,879	153,393 54,706 22,681 84,696	79,566 42,159 17,059 14,153	163, 126, 840 41, 288, 111 12, 483, 743 7, 895, 859	
WEST SOUTH CENTRAL: Arkensas. Louisiana. Oklahoma Texas.	141,014 138,905 211,175 821,459	68,303 46,602 116,217 311,980	124, 445, 991 101, 597, 617 163, 999, 696 689, 474, 644	111,623 133,434 160,576 565,806	37,658 41,803 55,339 148,881	112,397,972 100,700,585 149,005,621 498,002,811	29,391 5,471 50,599 255,653	30,645 4,799 60,878 163,099	12,048,019 897,032 14,994,075 191,471,833	
MOUNTAIN: Montana Idaho Wyoming Colorado New Mexico Arizona. Utah Nevada.	54, 259 58, 205 20, 368 261, 987 22, 492 18, 621 112, 726 9, 792	35,537 29,454 9,946 90,397 10,346 11,224 34,064 5,684	74, 199, 468 45, 634, 700 17, 121, 932 165, 041, 703 20, 174, 439 11, 573, 427 93, 122, 867 8, 497, 593	30,652 50,191 15,634 253,518 19,648 16,669 108,316 3,936	16,180 17,560 7,471 84,626 8,482 9,802 30,971 2,525	29, 034, 109 36, 577, 475 17, 121, 932 163, 508, 703 19, 387, 139 11, 121, 388 90, 575, 087 4, 966, 206	23,607 8,014 4,734 8,469 2,844 1,952 4,410 5,856	19,357 11,894 2,475 5,771 1,864 1,422 3,093 3,159	45, 165, 359 9, 057, 225 (2) 1, 533, 000 787, 300 452, 039 2, 547, 780 3, 531, 387	
PACIFIC: Washington. Oregon. California	487,079 272,481 1,360,544	150,016 99,713 434,002	295, 273, 362 170, 065, 267 725, 879, 813	429,025 186,103 1,130,239	106,151 58,030 323,145	236, 826, 440 119, 183, 718 550, 289, 808	58,054 86,378 230,305	43,865 41,683 110,857	58, 446, 922 50, 881, 549 175, 590, 005	

 $^{^1}$ Exclusive of systems reporting an annual income of less than \$5,000. Not reported, there being no "All other systems" in W yoming with an annual income of \$5,000 or more.

TELEPHONES AND TELEGRAPHS.

TABLE 6.—TELEPHONE SYSTEMS REPORTING AN ANNUAL INCOME OF \$5,000 OR MORE, CLASSIFIED AS THE BELL TELEPHONE SYSTEM AND ALL OTHER SYSTEMS—TRAFFIC: 1912, 1907, AND 1902.

	1049	, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	7000	PER CE	NT OF INCE	REASE.1
	1912	1907	1902	1902-1912	1907-1912	1902-1907
TOTAL.						
Number of systems.	1,916	1,636	4, 151	-53.8	17.1	-60.6
Number of telephones.	7,326,748	4,906,693	2, 315, 297	216.4	49.3	111.9
Estimated number of messages or talks. Local exchange. Long distance or toll.	13,735,658,245	10, 400, 433, 958	5,070,554,553	170, 9	32. 1	105.1
	13,394,885,442	10, 160, 630, 944	4,949,849,709	170, 6	31. 8	105.3
	340,772,803	239, 803, 014	120,704,844	182, 3	42. 1	98.7
Average messages or talks per telephone	1,875	2,120	2,190	-14.4	-11.6	-3.2
Local exchange	1,828	2,071	2,138	-14.5	-11.7	-3.1
Long distance or toll.	47	49	52	-9.6	-4.1	-5.8
BELL TELEPHONE SYSTEM.						
Number of systems	5,087,027	3,132,063	1,317,178	300. 0 286. 2	0. 6 62. 4	297. 7 137. 8
Estimated number of messages or talks	9, 133, 226, 836	6, 401, 044, 799	3,074,530,060	197. 1	42. 7	108. 2
Local exchange.	8, 886, 838, 093	6, 209, 430, 515	2,998,344,933	196. 4	43. 1	107. 1
Long distance or toll.	246, 388, 743	191, 614, 284	76,185,127	223. 4	28. 6	151. 5
Average messages or talks per telephone. Local exchange. Long distance or toll.	1,795	2,044	2,334	-23.1	-12.2	-12.4
	1,747	1,983	2,276	-23.2	-11.9	-12.9
	48	61	58	-17.2	-21.3	5.2
ALL OTHER SYSTEMS.						
Number of systems. Number of telephones.	1,740	1,461	4,107	-57.6	19. 1	-64. 4
	2,239,721	1,774,630	998,119	124.4	26. 2	77. 8
Estimated number of messages or talks. Local exchange. Long distance or toll.	4, 602, 431, 409	3,999,389,159	1,996,024,493	130. 6	15. 1	100. 4
	4, 508, 047, 349	3,951,200,429	1,951,504,776	131. 0	14. 1	102. 5
	94, 384, 060	48,188,730	44,519,717	112. 0	95. 9	8. 2
Average messages or talks per telephone. Local exchange. Long distance or toll.	2,055	2, 254	2,000	2.8	-8.8	12.7
	2,013	2, 227	1,955	3.0	-9.6	13.9
	42	27	45	-6.7	55.6	-40.0

¹A minus sign (-) denotes decrease.

TABLE 7.—TELEPHONE SYSTEMS REPORTING AN ANNUAL INCOME OF \$5,000 OR MORE—ESTIMATED NUMBER OF MESSAGES OR TALKS AND THE NUMBER OF MESSAGES OR TALKS PER TELEPHONE PER DAY, BY GEOGRAPHIC DIVISIONS AND STATES: 1912, 1907, AND 1902.

		Number of	ESTIMATED NUM MESSAGES OR	TALKS.			Number of	ESTIMATED NUM MESSAGES OR	IBER OF TALKS.
DIVISION AND STATE.	Census.	telephones.	Total.	Per tele- phone per day.1	DIVISION AND STATE.	Census.	telephones.	Total.	Per tel phone per day
United States	1912 1907	7,326,748 4,906,693	13, 735, 658, 245 10, 400, 433, 958	5.8 6.5	WEST NORTH CENTRAL—Con.	1010	150 010	001 615 155	
<u>.</u>	1902	4, 906, 693 2, 315, 297	2 5, 070, 554, 553	6.7	Nebraska	1912 1907 1902	156, 619 107, 518 36, 153	291,615,175 246,047,837 73,227,030	5. 7. 6.
GEOGRAPHIC DIVISIONS: New England	1907	600,207 384,413	810, 524, 037 572, 523, 863	4.2 4.6	Kansas	1902 1912 1907	143,751 104,131	303,949,361 238,969,302 58,699,143	6.
Middle Atlantic	1902 1912 1907	166, 103 1, 675, 681 1, 167, 667	298, 292, 134 2, 422, 868, 241 1, 947, 571, 139	5.5 4.4 5.1	SOUTH ATLANTIC: Maryland. Delaware, and	1902 1912	40, 972 143, 499	177,755,722	3
East North Central	1902 1912	481, 567 2, 020, 802	909, 887, 064	5.8 6.1	Maryland, Delaware, and District of Columbia.	1907 1902	107, 553 36, 383	165,995,216 70,981,973	6
West North Central	1907 1902 1912	1,360,544 721,549 1,109,359	4,025,906,387 3,067,416,613 1,733,817,138 2,238,770,606	7.6 7.4 6.2	Virginia	1912 1907 1902	56, 968 38, 963 24, 130	164, 421, 931 115, 354, 885 65, 494, 626	8 9 8
	1907 1902	767, 050 369, 619 428, 311	2,238,770,606 1,664,198,498 712,440,737	6.7 5.9 6.2	West Virginia	1912 1907	55,033 46,709	103, 255, 136 109, 065, 223	5 7 5
South Atlantic	1907 1902	296,271 143,314	869, 439, 943 749, 939, 984 353, 559, 870	7.8 7.6	North Carolina	1902 1912	22,376 41,177	41,605,891 90,831,013	6
East South Central	1912 1907 1902	261, 294 197, 291 111, 472	662, 046, 512 731, 000, 908 377, 950, 187	7.8 11.4 10.4	•	1907 1902	22,379 16,252	80, 667, 891 36, 485, 398	· ·
West South Central	1912 1907 1902	387, 022 239, 746 114, 527	1,079,517,948 646,501,299 303,547,439	8.6 8.3 8.2	South Carolina	1912 1907 1902	24,871 15,393 10,467	68, 170, 380 51, 558, 785 23, 893, 914	10
Mountain	1912 1907	204, 508 141, 339 47, 953	435, 366, 129 299, 270, 686	6.6 6.5	Georgia	1907	78,864 52,568	206, 631, 042 187, 647, 940	11
Pacific	1902 1912 1907	639, 564	102, 374, 364 1, 191, 218, 442 722, 010, 968 278, 685, 620	6.6 5.7 6.3	Florida	1902 1912	25,490 27,899	96, 192, 066 58, 374, 719	11
	1902	352,372 159,193	278, 685, 620	5.4	The construction of the co	1907 1902	12,706 8,216	39, 650, 044 18, 906, 002	
EW ENGLAND:	1912	57,988	04 000 150	4.5	EAST SOUTH CENTRAL: Kentucky	1912	100, 174	287, 807, 892	1
Maine	1907 1902	43, 846 14, 045	84, 033, 152 73, 197, 982 21, 923, 915	5.1 4.8		1907 1902	75,370 46,266	276, 476, 058 143, 101, 564	1
New Hampshire	1912 1907	36, 052 24, 345	49, 984, 600 36, 537, 513 16, 987, 012	4.3 4.6	Tennessee	1912 1907 1902	78,717 60,357 36,060	188, 865, 474 231, 218, 675 128, 274, 719]
Vermont	1902 1912 1907	9, 949 31, 498 22, 117	16, 987, 012 48, 306, 101 35, 666, 768	5.3 4.7 5.0	Alabama	1912 1907	44, 144 32, 473 14, 077	100, 983, 408 102, 736, 572	
25 2 11	1902	12, 112	19,075,847	4.8	Mississippi	1902 1912	14,077 38,259	46, 158, 943 84, 389, 738	, 1
Massachusetts	1912 1907 1902	328, 503 207, 201 96, 512	401, 817, 540 298, 824, 440 183, 115, 320	3.8 4.4 5.8	WEST SOUTH CENTRAL:	1907 1902	29,091 15,069	120, 569, 603 60, 414, 961	1
Connecticut and Rhode Island.	1912 1907 1902	146, 166 86, 904 33, 485	226, 382, 644 128, 297, 160 57, 190, 040	4.8 4.5 5.3	Arkansas	1912 1907 1902	45,743 32,288 16,892	124, 445, 991 71, 950, 886 36, 716, 883	
IDDLE ATLANTIC: New York	1912 1907	923, 136 637, 881	1,297,849,047 1,034,651,594 360,098,123	4.3 5.0	Louisiana	1912 1907 1902	43, 906 33, 448 17, 509	101, 597, 617 120, 647, 366 68, 083, 915	1 1
New Jersey	1902 1912 1907	246, 015 182, 419 114, 528	360, 098, 123 192, 311, 511 138, 914, 642	4.5 3.2 3.7	Oklahoma	1912 1907	65,215 36,758	163, 999, 696 108, 725, 669	,
Pennsylvania	1902 1912	48, 980	56, 171, 223 932, 707, 683	3. 5 5. 0	Texas	1902 1912	15,716 232,158	31, 667, 627 689, 474, 644	
•	1907 1902	570, 126 415, 258 186, 572	774, 004, 903 493, 617, 718	5. 7 8. 1	Mountain:	1907 1902	137, 252 64, 410	345, 177, 378 167, 079, 014	
AST NORTH CENTRAL: Ohio	1912 1907	567, 573 431, 851 222, 767	1,301,503,565 1,014,222,376 558,707,801	7.1 7.2 7.7	Montana	1912 1907 1902	31, 188 14, 699 5, 421	74,199,468 18,869,410 11,352,976	
Indiana	1902 1912 1907	274, 291	558, 707, 801 583, 621, 519 498, 560, 085	6.5	Idaho	1912 1907	23, 475 13, 743	45,634,700 24,883,595 6,451,762	
Tllinois	1902 1912	202, 492 132, 489 704, 230 434, 518	294, 657, 565 1, 105, 751, 431 833, 749, 155	7. 6 6. 8 4. 8 5. 9	Colorado	1902 1912 1907	3, 862 85, 886 62, 861 24, 533	165, 041, 703 138, 203, 561	
Michigan	1907 1902 1912	211, 187 288, 154	541,161,932	7.9	New Mexico	1902 1912 1907	9,047	60, 258, 533 20, 174, 439 12, 548, 942	
	1907 1902	179, 263 93, 961	694,363,258 413,557,846 237,695,112	7.4 7.1 7.8		1902	5,496 2,481	4,297,920	
Wisconsin	1912 1907 1902	186,554 112,420 61,145	340, 666, 614 307, 327, 151 101, 594, 728	5.6 8.4 5.1	Arizona	1912 1907 1902	10, 128 5, 285 3, 259	11,573,427 10,379,750 5,072,727	
EST NORTH CENTRAL: Minnesota					Utah and Wyoming	1912 1907	39, 489 35, 156	110, 244, 799 87, 596, 483	3
	1907 1902	208, 340 125, 884 62, 039	418, 720, 464 274, 434, 452 113, 124, 262	6. 2 6. 7 5. 6	Nevada	1902 1912	35, 156 7, 232 5, 295	13,531,312	4
Iowa	1912 1907 1902	242, 963 187, 938 120, 017	471, 126, 059 336, 184, 981 193, 054, 738	6. 0 5. 5 5. 0	PACIFIC:	1907 1902	4,099 1,165	8, 497, 593 6, 788, 945 1, 409, 134	3
Missouri		285, 472 192, 943 93, 371	655, 616, 330 468, 138, 352 242, 309, 227	7.1 7.5 8.0	Washington	1912 1907 1902	134, 040 86, 439 31, 447	295, 273, 362 200, 184, 465 64, 623, 982	6
North Dakota	1912 1907	32, 915 20, 835	49, 861, 643 39, 874, 764	4.7 4.6	Oregon	1912 1907 1902	84,923 37,171 21,172	170, 065, 267 83, 833, 537 35, 777, 238	6
South Dakota	1902 1912	6,762 39,299	14, 106, 733 47, 881, 574	5.9 3.7	California	1912 1907	420, 601	725, 879, 813	5
	1907 1902	.27, 801 10, 305	60, 548, 810 17, 919, 604	6.7 5.4		1902	228, 762 106, 574	437, 992, 966 178, 284, 400	- {

¹ Computed for 325 days to the year.

² Exclusive of independent farmer or rural lines.

TABLE 8.—TELEPHONE SYSTEMS REPORTING AN ANNUAL INCOME OF LESS THAN \$5,000, INCLUDING FARMER OR RURAL LINES—NUMBER OF SYSTEMS, MILES OF WIRE, AND NUMBER OF TELEPHONES, BY GEOGRAPHIC DIVISIONS AND STATES: 1912 AND 1907.

		of systems Lines.	MILES	F WIRE.	NUMBER OF	TELEPHONES.	, PER C	CENT OF INC	DREASE.1
DIVISION AND STATE.	1912	1907	1912	1907	1912	1907	Number of systems or lines.	Miles of wire,	Number of telephones.
United States	30,317	21, 335	1, 228, 935	1,077,404	1, 402, 844	1, 211, 885	42. 1	14. 1	15.8
GEOGRAPHIC DIVISIONS: New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	328 2,118 4,296 10,128 2,607 2,928 5,717 937 1,258	319 1, 400 4, 375 9, 176 1, 279 1, 138 2, 187 425 1, 036	21, 979 85, 941 291, 802 401, 745 105, 314 80, 782 159, 730 32, 474 49, 168	23, 950 70, 419 296, 857 378, 614 84, 241 53, 401 107, 004 22, 192 40, 726	25, 281 106, 464 357, 455 512, 164 103, 091 75, 998 156, 080 22, 144 44, 167	25, 856 85, 236 351, 846 484, 505 69, 403 45, 943 102, 509 12, 722 33, 775	2.8 51.3 -1.8 10.4 103.8 157.3 161.4 120.5 21.4	-8.2 22.0 -1.7 6.1 25.0 51.3 49.3 46.3	-2. 2 24. 9 1. 6 5. 7 48. 3 65. 4 52. 3 74. 1 30. 8
New England: Maine. New Hampshire Vermont Massachusetts. Rhode Island Connecticut.	157 62 81 25 (2)	138 54 85 30 2 10	9,560 3,567 6,369 2,319 (2)	7, 815 5,078 7, 144 2, 386 403 1, 124	10, 926 3, 965 8, 644 1, 489 (2) 257	9, 288 4, 575 8, 716 2, 182 170 925	13.8 14.8 -4.7 -16.7	22. 3 -29. 8 -10. 8 -2. 8	17. 6 -13. 3 -0. 8 -31. 8
MIDDLE ATLANTIC: New York New Jersey Pennsylvania. EAST NORTH CENTRAL:	778 90 1,250	831 20 549	31,708 2,794 51,439	32, 221 2, 887 35, 311	47, 313 3, 213 55, 938	47,631 2,460 35,145	-6.4 350.0 127.7	-1.6 -3.2 45.7	-0, 7 30, 6 50, 2
Ohio Indiana Illinois Michigan Wisconsin	572 947 1,091 975 711	803 754 1,672 498 648	51, 816 65, 099 80, 646 38, 513 55, 728	54, 203 75, 408 96, 111 27, 085 44, 050	63, 633 80, 259 103, 023 46, 920 63, 620	63,785 86,960 124,067 30,579 46,455	-28. 8 25. 6 -34. 7 95. 8 9. 7	-4. 4 -13. 7 -16. 1 42. 2 26. 5	$ \begin{array}{r} -0.2 \\ -7.7 \\ -17.0 \\ 53.4 \\ 36.9 \end{array} $
Minnesota. Lows. Missouri North Dakota. South Dakota. Nebraska Kansas.	1,295 3,298 2,212 343 436 797 1,747	770 3,316 2,577 238 306 812 1,157	55, 596 84, 429 94, 622 17, 662 22, 757 43, 673 83, 006	44,590 92,452 92,917 11,649 16,380 46,348 74,278	64,019 137,331 118,678 18,326 26,559 45,070 102,181	45, 595 144, 607 119, 584 13, 252 20, 604 44, 761	68. 2 0. 5 14. 2 44. 1 42. 5 1. 8	24.7 -8.7 1.8 51.6 38.9 -5.8	40, 4 -5, 0 -0, 8 38, 3 28, 9 0, 7
SOUTH ATLANTIC: Delaware. Maryland. Virginia. West Virginia. North Carolina. South Carolina. Georgia. Florida. EAST SOUTH CENTRAL:	50 149 318 285 603 384 751 67	1 17 273 177 388 136 200 87	595 3, 268 19, 113 18, 557 26, 573 10, 931 20, 854 5, 423	10 2,536 16,871 14,148 23,566 10,245 10,582 6,293	632 3, 115 19, 684 25, 218 23, 975 8, 368 17, 572 4, 527	96, 102 41 2,688 16,578 14,725 5,518 9,602 4,816 1,725 1,7	51. 0 4,900. 0 770. 5 16. 5 61. 0 55. 4 182. 4 275. 5 —23. 0	5, 850. 0 28. 9 13. 3 31. 2 12. 8 6. 7 97. 1	1,441.5 15.9 18.7 63.4 62.8 51.6 81.3
Kentucky, Tennessee Alabama Mississippi	946 1,061 476 445	387 199 289 263	28, 332 30, 726 12, 726 8, 998	20, 354 12, 525 9, 208 11, 314	30, 577 25, 636 12, 148 7, 637	18,626 10,773 8,008 8,536	144. 4 433. 2 64. 7 69. 2	39. 2 145. 3 38. 2 -20. 5	-6.0 64.2 138.0 51.7
Arkansas. Louisiana. Oklahoma Texas.	1,023 180 1,336 3,178	516 64 693 914	21, 249 3, 657 41, 120 93, 704	17, 993 3, 012 22, 982 63, 017	22, 560 2, 696 51, 002 79, 822	17, 288 2, 244 31, 367 51, 610	98. 3 181. 2 92. 8 247. 7	18, 1 21, 4 78, 9	-10, 5 30, 5 20, 1 62, 6
Montana. Idaho. Wyoming. Colorado. New Mexico. Arizona. Utah. Nevada. ACPIC: Washington. Oregon.	144 197 125 315 63 33 42 18	89 79 64 97 37 31 13 15	7, 087 5, 811 4, 734 7, 399 2, 074 1, 428 3, 048 893	4, 839 3, 387 2, 993 5, 409 2, 298 1, 269 949 1, 048	4,349 5,979 2,475 4,511 1,299 1,096 2,046 389	2,469 2,651 1,368 3,047 1,167 918 610 502	61. 8 149. 4 95. 3 224. 7 70. 3 6. 5 223. 1 20. 0	48. 7 46. 5 71. 6 58. 2 30. 8 —9. 7 12. 5 221. 2 —14. 8	54, 7 76, 1 125, 5 80, 0 48, 0 12, 3 19, 4 235, 4 —22, 5
Oregon California. 1 A minus sign (—) denotes d	303 621	467 287 282	16, 729 14, 763 17, 676	13,743 13,077 13,906 tems reported	15, 976 14, 790 13, 401	12, 407 12, 458 8, 910	-28. 5 5. 6 120, 2	21. 7 12. 9 27. 1	28.8 18.7 50.4

² No systems reported an annual income of less than \$5,000.

Table 9.—Telephone Systems Reporting an Annual Income of \$5,000 or More—Income and Expenses: 1912 and 1907.

	1912	1907	Per cent of in-	PER CENT OF TOTAL.		
	1912	1501	crease: 1907- 1912	1912	1907	
Income, total	\$255,081,234	\$176,700,408	44.4	100.0	100.0	
From telephone business, including assessments From leased lines, wires, and	243,591,929	167, 148, 389	45.7	95.5	94.6	
conduits	4,076,278	2,403,650	69.6	1.6	1.4	
All other income	7,413,027	7, 148, 369	3.7	2.9	4.0 100.0	
Expenses, total	203,754,909	135, 475, 177	50.4	100.0	100.0	
Operating expenses: Salaries and wages	96,040,541	65,009,349	47.7	47.1	48.0	
All other	75, 138, 892	48, 316, 961	55.5	36.9	35.7	
Taxes	12,411,516	6,213,472	99.8	6.1	4.6	
Interest	20, 163, 960	15,935,395	26.5	9.9	11.8	
Net income	51,326,325	41,225,231	24.5			
Dividends declared during	94 100 000	02 449 010	45.5	100.0	100.0	
year, total	34, 120, 809	23,448,212 21,753,565	48.3	94.5	92.8	
On common stock	32,255,125 1,865,684	1,694,647	10.1	5.5	7.2	
On preferred stock Surplus	17, 205, 516	17, 777, 019	3.2			
par hins	11,200,010	1,,			1	

Table 10.—Telephone Systems Reporting an Annual Income of \$5,000 or More—Income and Expenses: 1912.

	1912	Per cent of total.
Income, total	\$255.081.234	100.0
From telephone business	\$255,081,234 243,427,611	95, 4
Interest on bonds and dividends on stock of other		į
telephone companies	857,619	0.3
Interest on bonds and dividends on stock of compa-	•	
nies other than telephone companies!	3,507,347	1.4
From legged telephone lines, wires, and conduits	4,076,278 464,949 1,698,777 164,318	1.6
Real estate rentals	464, 949	0.2
Interest	1,698,777	0.7
Assessments	164,318	0.1
Miscellaneous	884.330	0.3 100.0
Expenses, total	203, 754, 909	14.0
General operation and maintenance	28,444,000	47.1
Salaries and wages	28,444,000 96,040,541 116,425	0.1
Rentals of instruments and apparatus.	2 280 545	1 1.1
Rentals of offices and other real estate	2,280,545 1,206,015	0.6
Rentals of conduits and underground privileges Payments for telephone traffic made to other compa-	1,200,010	1 0.0
nies	1,187,265	0.6
Miscellaneous	402, 784	0.2
Taxes	12 411 516	6.1
Interest	20, 163, 960	9.9
Payments for use of leased lines	405,907	0.2
Payments for use of leased lines Depreciation charges	40.755.657	20.0
Sinking fund charges	340, 294	0.2
Net income	340, 294 51, 326, 325	
Dividends declared during the year, total	34, 120, 809	100.0
On common stock	32, 255, 125	94.5
On preferred stock	1,865,684	5.5
Surplus	17, 205, 516	

¹ Includes income from other permanent investments.

Table 11.—TELEPHONE SYSTEMS REPORTING AN ANNUAL INCOME OF \$5,000 OR MORE—EMPLOYEES, SALARIES, AND WAGES: 1912, 1907, AND 1902.

				PER CENT OF INCREASE.1			
	1912	1907	1902	1902-1912	1907-1912	1902-1907	
Employees, total: Number Salaries and wages. Salaried employees— Number Salaries. Wage earners— Total average number. Total wages. Operators— Average number. Wages. Men— Average number. Wages. Fer cent of total operators	2 183, 361 \$96, 040, 541 38, 753 \$32, 681, 482 144, 608 \$63, 359, 059 96, 332 \$32, 474, 093 1, 972 \$870, 2, 0	131, 670 \$65,009, 349 22, 819 \$18, 542, 619 108, \$51 \$46, 466, 730 72, 518 \$22, 636, 671 2, 457 \$942, 455	78, 752 \$36, 255, 621 14, 124 \$9, 885, 886 6, 628 \$26, 369, 735 39, 858 \$10, 705, 098 2, 525 \$729, 666 6, 63	132.8 164.9 174.4 230.6 123.8 140.3 141.7 201.7 -21.9 19.3	39. 3 47. 7 69. 8 78. 2 32. 8 36. 4 32. 8 43. 5 -19. 7 -7. 6	67. 2 79. 3 61. 6 87. 6 68. 4 76. 2 81. 9 110. 3	
Per cent of total operators Women— Average number. Wages. Per cent of total operators All other wage earners— Average number. Wages.	94,360 \$31,603,422 98.0	3.4 70,061 \$21,694,216 96.6 36,333 \$23,830,059	37, 333 \$10, 035, 432 93. 7 24, 770 \$15, 604, 637	152.8 214.9 94.9 97.9	34. 7 45. 7 32. 9 29. 6	87. 7 116. 2 46. 7 52. 7	

¹ A minus sign (-) denotes decrease.

² Number employed Sept. 16, 1912.

TELEPHONES AND TELEGRAPHS.

TABLE 12.—TELEPHONE SYSTEMS REPORTING AN ANNUAL INCOME OF \$5,000 OR MORE—COMPARATIVE SUMMARY: 1912 AND 1907.

			TOTAL. BELL TELEPHONE SYSTEM.			ALL OTHER SYSTEMS.		
	1912	1907	1912	1907	1912	1907		
fumber of systems files of single wire files of pole line fumber of public exchanges. fumber of telephones. Stimated number of messages or talks neome, total. Expenses, including taxes and fixed charges, total et income ividends. Lost of construction and equipment. Stocks and bonds and other permanent investments. Cash and current assets. Sundries, including stock and bond discount and sink- ing and other special funds. Abbilities, total. Capital stock. Funded debt. Real estate mortgages, floating debt, and accounts pay- able. Cash investments. Interest, taxes, and dividends, due and accrued. Reserves Sundries Net surplus. slaried employees: Number Salaries. Vage earners: Average number. Wages.	\$34, 120, 809 \$1, 205, 670 \$1, 205, 433, 227 \$1, 205, 677 \$1, 205, 4667 \$1, 205, 4667 \$13, 063, 952 \$13, 205, 763, 879 \$404, 530, 236 \$71, 742, 634 \$3, 287, 138 \$17, 520, 891 \$148, 818, 981 \$2, 234, 721 \$2, 234, 721	1, 636 11, 921, 960 553, 752 10, 613 4, 906, 693 10, 400, 433, 958 \$176, 700, 408 \$135, 475, 177 \$41, 225, 231 \$23, 448, 212 \$940, 357, 998 \$794, 906, 971 \$60, 731, 000 \$82, 963, 172 \$2, 566, 765 \$940, 357, 998 \$456, 788, 725 \$301, 333, 489 \$74, 388, 503 \$2, 583, 833 \$11, 855, 910 \$38, 991, 858 \$6, 210, 884 \$48, 204, 796 22, 819 \$18, 542, 619 10, 8851 \$46, 466, 730	15, 133, 186 353, 422 5, 853 5, 867, 027 9, 133, 226, 836 \$206, 130, 830 \$163, 024, 105 \$43, 106, 725 \$29, 770, 841 \$934, 805, 563 \$780, 017, 745 \$72, 629, 170 \$82, 158, 648 \$934, 805, 563 \$397, 885, 433 \$295, 872, 053 \$49, 818, 920 \$14, 405, 707 \$17, 967, 085 \$434, 304 \$338, 422, 061 31, 435 \$27, 004, 837 1110, 468 \$49, 896, 524	8, 947, 266 287, 458 5, 418 3, 132, 063 6, 401, 044, 799 \$138, 803, 831 \$107, 356, 551 \$31, 447, 280 \$20, 201, 937 \$623, 036, 358 \$526, 079, 031 \$25, 090, 795 \$71, 866, 552 \$244, 578, 646 \$197, 071, 800 \$50, 825, 741 \$9, 703, 462 \$36, 168, 979 \$34, 687, 730 \$17, 039 \$14, 501, 916 78, 772 \$36, 073, 994	1, 740 3, 886, 205 318, 205 318, 205 318, 205 318, 205 4, 602 2, 239, 721 4, 602, 431, 409 \$48, 930, 730, 804 \$40, 730, 804 \$410, 968 \$360, 864, 538 \$301, 415, 482 \$331, 925, 497 \$14, 459, 607 \$13, 063, 952 \$360, 864, 538 \$3188, 878, 446 \$108, 658, 183 \$21, 923, 714 \$31, 287, 138 \$3, 115, 184 \$110, 851, 896 \$11, 800, 417 \$222, 349, 560 7, 318 \$5, 676, 645 134, 140 \$134, 462, 535	1, 461 2, 974, 662 2, 974, 662 2, 974, 662 2, 974, 626 3, 999, 389, 159 \$37, 896, 777, 951 \$32, 246, 275 \$317, 321, 640 \$288, 917, 940 \$25, 640, 295 \$11, 996, 640 \$2, 566, 210, 284 \$2, 582, 583, 833, \$2, 152, 448 \$2, 822, 579 \$6, 210, 884 \$13, 517, 066 5, 780 \$4, 040, 703		

¹ Number employed Sept. 16, 1912.

TABLE 13.—TELEPHONE AND TELEGRAPH SYSTEMS—COMPARATIVE SUMMARY: 1912 AND 1907.

	тот	AL.	TELEPHON	SYSTEMS.1	TELEGRAPI	I SYSTEMS,2	PE	R CENT	OF TOTA	L,
	1912 1907	1912	1912	1907	1912	1907	Telep	hones.	Telegr	raphs.
							1912	1907	1912	1907
Number of systems and lines	1,943 20,833,587 67,676	1,662 13,499,921 46,301	1,916 19,019,391	1,636 11,921,960	27 8 1,814,196 67,676	26 1,577,961 46,301	98.6 91.3	98. 4 88. 3	1. 4 8. 7	1.6 11.7
Average number Salaries and wages Capital stock and bonds outstanding Income Expenses	\$120,656 \$121,005,535 \$1,217,451,802 \$319,844,077 \$262,133,861	159,704 \$82,817,598 \$978,415,789 \$228,284,276 \$177,354,790	183, 361 \$96, 040, 541 \$991, 064, 992 \$255, 081, 234 \$203, 754, 909	131,670 \$65,009,349 \$758,122,214 \$176,700,408 \$135,475,177	37, 295 \$24, 964, 994 \$226, 386, 810 \$64, 762, 843 \$58, 378, 952	28, 034 \$17, 808, 249 \$220, 293, 575 \$51, 583, 868 \$41, 879, 613	83. 1 79. 4 81. 4 79. 8 77. 7	82. 4 78. 5 77. 5 77. 4 76. 4	16. 9 20. 6 18. 6 20. 2 22. 3	17.6- 21.5- 22.5- 22.6- 23.6-

¹ Exclusive of systems reporting an annual income of less than \$5,000; 1,228,935 miles of wire in 1912 and 1,077,404 miles in 1907.
2 Exclusive of wireless telegraph systems.
3 Exclusive of 314,329 miles of wire owned and operated by railway companies.
4 Number employed Sept. 16, 1912.

TELEGRAPHS

TELEGRAPHS.

The census of 1912 covered all commercial telegraph companies, including ocean cable and wireless systems operating in the continental United States. The inquiry did not extend to Alaska, Porto Rico, Hawaii, the Panama Canal Zone, or the Philippine Islands. The final report on telegraphs will contain statistics for railway and governmental systems. These data, however, are not included in this bulletin.

The companies, statistics for which are included in the tables for ocean telegraphs are: Central and South American Telegraph Company, Commercial Cable Company of New York, Commercial Cable Company of Cuba, Commercial Pacific Cable Company, Mexican Telegraph Company, and United States and Hayti Telegraph and Cable Company. All these companies are incorporated in the United States. The figures do not embrace the business of the French Telegraph Cable Company of Paris or the German Atlantic Telegraph Company of Cologne; these, although doing some business with this country, are foreign corporations.

It has not been practicable to secure statistics concerning wires leased from commercial companies by press associations or newspapers, nor the number of messages transmitted. The miles of these leased wires, however, are included in the reports of commercial companies owning them.

Statistics of telegraph offices in railway stations are included when such offices are controlled by telegraph companies or do a commercial business, but the number of messages does not include the number sent on railway business only. The number of wage earners does not include operators employed in railway telegraph offices and paid by railway companies under a contract with the telegraph company.

The reports for the census of 1912 were made before the accounting system formulated by the Interstate Commerce Commission was in force. This system was started January 1, 1914, and in future census reports certain changes may be made in the form of presentation for the sake of uniformity with this new system.

Table 1.—Land and ocean telegraph systems combined: 1912, 1907, and 1902.—This is a comparative summary covering the principal items reported for the land and ocean telegraph companies at the last three censuses.

Table 2.—Land telegraph systems: 1912 and 1907.— This table summarizes the statistics reported for the land telegraph companies at the last two censuses. At the census of 1902 the statistics for land telegraph and ocean cable systems were combined, and it is now impracticable to segregate them so as to obtain data for the land companies comparable with the statistics reported for 1907 and 1912. The Western Union Telegraph Company reported that it was impossible to furnish separate statistics for its ocean cable business and therefore the operations of the entire company are included. The table also includes the statistics for the business done in the United States by the Great North Western Telegraph Company of Canada. This company could not furnish a separate balance sheet for its business in the United States and therefore the balance sheet entries do not include its operations.

The differences in the methods of accounting followed in 1907 and 1912 to some extent invalidate the comparison of expenses. No statement of charges for depreciation or for sinking fund, if charged against income, was made in 1907, but these charges were included for 1912. In order to avoid the disclosure of amounts reported by individual companies it was necessary to combine some items in the balance sheet in a manner that is not in harmony with up-to-date accounting methods.

Table 3.—Land telegraph systems—Revenue and income account: 1912 and 1907.—This table sets forth in detail, so far as they can be shown, the revenues derived by land telegraph companies at both censuses from telegraph traffic and from all other sources. The net income shown in this table is obtained by deducting operating expenses, including depreciation, and fixed charges, from the gross income.

Table 4.—Land telegraph systems—Operating expenses: 1912 and 1907.—A detailed statement of operating expenses of land telegraph companies is given in this table for both censuses. Thus are shown the amounts paid for salaries and wages, for rentals, and to other companies for traffic.

TABLE 5.—Ocean cable telegraph systems: 1912 and 1907.—This is a comparative summary of the statistics reported by ocean cable telegraph companies at the last two censuses. This table does not include statistics for the ocean cables operated by the Western Union Telegraph Company. This statement applies also to Tables 6 and 7. The miles of ocean cable and number of ocean messages, however, reported by this company are given in a footnote.

Table 6.—Ocean cable telegraph systems—Revenue and income account: 1912 and 1907.—The revenue of ocean cable telegraph companies for both censuses is shown in detail in this table and in such a manner as to present the net surplus or net deficit.

Table 7.—Ocean cable telegraph systems—Operating expenses: 1912 and 1907.—This table gives, by kind, the expenses incident to the operation of ocean cable telegraph companies for both censuses.

Table 8.— Wireless telegraph systems: 1912 and 1907.—This is a summary of statistics reported by wireless telegraph companies at the last two censuses. The statistics for 1907 do not agree with the figures published in the reports of that census because the statistics for Hawaii have been deducted in order to

make the totals comparative. The amount given as wages does not fully show the compensation of operators, as many of these serve on ships where they receive, in addition to wages, board and quarters.

The capital reported for 1907 was reduced nearly three-fourths during the five-year period by the bankruptcy of one company having a very large capitalization. The tangible assets of this company are now owned by the Marconi Wireless Telegraph Company of America.

TABLE 1.-LAND AND OCEAN TELEGRAPH SYSTEMS COMBINED: 1912, 1907, AND 1902.

				PER CENT OF INCREASE.1			
	1912	1907	1902	1902-1912	1907-1912	1902-1907	
Number of companies or systems. Miles of pole line	07, 676 109, 377, 698 30, 864 \$64, 762, 843 \$60, 403, 009 \$4, 359, 834 \$6, 383, 891	2 26 3 239, 646 4 1, 577, 961 4 63, 301 103, 794, 076 29, 110 \$51, 583, 868 \$45, 255, 187 \$6, 828, 881 \$9, 704, 255 \$41, 879, 613 \$34, 057, 298 \$3, 436, 690 \$4, 335, 625	257, 990 41, 318, 350 10, 677 91, 685, 287 27, 377 \$40, 930, 038 \$35, 200, 569 \$5, 629, 469 \$9, 982, 004 \$30, 948, 034 \$24, 455, 511 \$2, 539, 008 \$3, 983, 505	8.0 4.0 37.6 305.8 19.3 12.7 58.2 71.1 -22.6 -36.0 88.6 91.3 55.8 93.3	3.8 3.3 15.0 46.2 5.4 6.0 25.5 33.5 -31.1 -34.2 39.4 37.4 15.1 74.3	4.0 0.7 19.7 177.6 13.2 6.3 26.0 28.2 12.4 —2.8 35.3 35.3	
Balance sheet: Assets, total. Construction and equipment Stocks and bonds of other companies. Cash and current assets, including supplies and sundries. Liabilities, total. Capital stock Funded delt. Reserves. Accounts payable ^g Dividends, interest, and taxes due and accrued, and sundries. Net surplus. Capitalization:	\$298, 288, 906 \$222, 046, 746 \$33, 933, 679 7 \$42, 308, 481 \$288, 288, 906 \$163, 645, 810 \$62, 741, 000 \$90, 802, 780	\$261, 807, 899 \$210, 045, 959 \$36, 486, 446 \$15, 275, 494 \$261, 807, 899 \$155, 089, 575 \$65, 204, 000 \$8, 257, 963 \$10, 411, 379 \$25, 199, 939	\$195, 503, 775 \$101, 679, 579 \$25, 939, 944 \$7, 884, 252 \$195, 503, 775 \$117, 053, 525 \$45, 893, 000 \$7, 859, 048 \$6, 244, 585 \$373, 976 \$18, 079, 041	52.6 37.3 30.8 436.6 52.6 39.8 36.7 164.7 216.4 4,042.7	13.9 5.7 -7.0 177.0 13.9 5.5 -3.8 151.9 89.7 515.0 -22.0	33. 9 29. 9 40. 7 93. 7 33. 9 32. 5 42. 1 5. 1 66. 7 573. 6	
Capitalization: Capital stock outstanding, par value Dividends on stock Funded debt outstanding, par value Employees and salaries and wages: Average number. Salaries and wages.	\$62,741,000	\$155,089,575 \$7,477,083 \$05,204,000 28,034 \$17,808,249	\$117, 053, 525 \$6, 256, 693 \$45, 893, 000 27, 627 \$15, 039, 673	39.8 —1.2 36.7 35.0 66.0	5. 5 -17. 3 -3. 8 33. 0 40. 2	32, 5 19, 5 42, 1 1, 5 18, 4	

1 A minus sign (—) denotes decrease.
2 Commerical Cable Company of Cuba (not reporting in 1902) counted as a separate company in both 1912 and 1907.
Exclusive of pole line wholly owned and wholly operated by railway companies.
Exclusive of wire wholly owned and wholly operated by railway companies; this in 1912 was 314,329 miles. In 1902 includes mileage operated outside of the United States by Western Union Telegraph Company.
Includes charges for depreciation.
Includes treasury stock and "other permanent investments."
Includes sinking funds and stock and bond discount.
Includes sinking funds and stock of subcompanies.
Includes designed et ock of subcompanies.
Includes deferred noninterest-bearing obligations payable only on determination of leases—not reported at previous censuses—and real estate mortgages.
Number employed Sept. 16, 1912.

TABLE 2.—LAND TELEGRAPH SYSTEMS: 1912 AND 1907.

	1912	1907	Per cent of in- crease. 1
Number of companies or systems	21	· 20	5.0
Miles of pole line	2 247, 528	² 239, 646	3.3
Miles of pole line	8 1, 814, 196	1,577,961	15.0
Number of messages4	106, 532, 530	101, 424, 759	5.0
Number of telegraph offices	30,781	29,056	5.9
Income total	\$ 56, 293, 469	\$43,912,168	28. 2
Income, total Telegraph traffic	\$52, 337, 211	\$37,916,907	38.0
All other sources	\$3,956,258	\$5,995,261	-34.0
Net income	5 \$3, 431, 044	\$5,675,181	-39.5
Expenses, total	\$52,862,425	\$38 , 23 6, 987	38. 2
Expenses, total)
including salaries and wages and			04.0
legal expenses	6 \$42,771,823	\$31,852,359	34.3
Interest and taxes	\$2,740,827	\$ 2, 246, 382	22.0
All other expenses	\$7,349,775	\$4, 138, 246	77.6
Balance sheet:		0100 100 007	14.8
Assets, total	\$190,705,751	\$166, 183, 007	
Construction and equipment	\$143,910,631	\$132,607,620	8.5
Stocks and bonds, including "other permanent invest-			
"other permanent invest-	# 61 F 100 F00	800 E14 000	-27.2
ments."	7\$17,122,592	\$23,514,882	-21.2
Cash and current assets, includ-	E 200 070 FD0	e10 000 E05	194.9
ing supplies and sundries	8 \$29,672,528	\$10,060,505	14.8
Liabilities, total	\$190,705,751	\$166, 183, 007	5.7
Capital stock	9 \$108, 156, 410	\$102,289,575 \$37,204,000	-6.6
Funded debt	\$34,741,000	\$1,876,858	180.0
Reserves	\$5,254,329	\$7,916,138	131.1
Accounts payable 10	\$18,295,683	\$1,910,100	101.1
Dividends, interest, and taxes due and accrued	\$1,460,733		1
aue and accrued	11 \$13,444,926	\$66,692	
Sundries	\$9,352,670	\$16,829,744	-44.4
Net surplus.	φθ, ου2, 010	#10,020,1 11	1
Capitalization:	\$108,156,410	\$102, 289, 575	5.7
Capital stock outstanding, par value Dividends on stock	\$3,139,861	\$4,944,042	-36.5
Dividends on Stock	\$34,741,000	\$37, 204, 000	-6.6
Funded debt Employees and salaries and wages:	901,111,000	\$0.,201,000	
Employees and smarles and wages.	12 35, 639	26,827	32.8
Average number. Salaries and wages	\$23,797,980	\$16,893,166	40.9
Datation and maged	1		}

1 A minus sign (—) denotes decrease.
2 Exclusive of pole line wholly owned and used by railway companies.
3 Does not include 22,816 mautical miles of ocean cable operated by the Western Union Telegraph Company. Exclusive also of 314,329 miles of wire wholly owned and operated by railway companies for their own business.
4 Does not include land messages sent over its 207 miles of leased land wire by a wireless company in 1912 nor ocean cable messages except those reported by the Western Union Telegraph Company.
6 Less all expenses, including charges for depreciation
6 Includes charges for depreciation, which were not included in expenses in 1907.
7 Includes treasury stock.
8 Includes sinking fund and stock and bond discount.
9 Includes sasumed stock of subcompanies.
10 Includes deferred noninterest-bearing obligations payable only on determination of leases, and real estate mortgages.
12 Number employed Sept. 16, 1912.

Table 3.—Land Telegraph Systems—Revenue and Income Account: 1912 and 1907.

	1912	1907	Per cent of in- crease.1
Gross receipts from operation. Operating expenses. Net earnings from operation. Income from other sources. Interest on bonds and dividends on stock of other companies. Leased telegraph lines, wires and conduits. Real estate rentals. Miscellaneous 2. Gross income less operating expenses. Deductions from income (fixed charges). Taxes. Interest. Payments for use of leased lines. Net income. Dividends on stock. Surplus.	45, 527, 564 6, 809, 647 3, 956, 258 375, 903 2, 419, 065 191, 154 970, 136 10, 765, 905 7, 334, 861 1, 132, 234 1, 608, 593 4, 594, 034 3, 431, 044 3, 139, 861	\$37, 916, 907 34, 205, 745 3, 711, 162 5, 995, 261 1, 081, 619 4, 430, 245 210, 014 273, 383 9, 706, 423 4, 031, 243 4, 031, 378 1, 493, 004 1, 784, 860 5, 675, 181 4, 944, 042 731, 139	38.0 33.1 83.5 -34.0 -65.2 -45.4 -9.0 254.9 10.9 82.0 50.3 7.7 157.4 -39.5 -36.5 -00.2

¹ A minus sign (—) denotes decrease.

Including interest.

TABLE 4.—LAND TELEGRAPH SYSTEMS—OPERATING EXPENSES: 1912 and 1907.

	1912	1907	Per cent of in- crease.1
Total	\$45,527,564	\$34,205,745	33.1
General operation and maintenance	42,771,823 23,797,980	31,852,359 16,893,166	34.3 40.9
legal expenses	15,269,031 3,704,812	14,959,193	2.1
Rentals of offices and other real estate Rentals of conduits and underground privi-	2,247,311	1,596,456	40.8
leges	101,035	5,920	1,606.7
other companies. Miscellaneous.	228,907 178,488	667,501 83,509	-65.7 113.7

¹ A minus sign (—) denotes decrease.

TABLE 5.—OCEAN CABLE TELEGRAPH SYSTEMS—SUMMARY: 1912 AND 1907.

·	1912	1907	Per cent of in- crease.1
Number of companies or systems 2. Nautical miles of ocean cable 2. Number of messages 2. Number of cable offices 2. Income, total. Telegraph traffic. All other sources. Net income. Expenses, total. General operation and maintenance,	44,860 2,845,168 83 \$8,465,798 \$403,576 \$2,952,847 \$5,516,527	40, 572 2,369, 317 54 \$7,671,700 \$7,338,280 \$333,420 \$4,020,074 \$3,642,626	10.6 20.1 53.7 10.4 9.9 21.0 -26.7 51.4
including salaries and wages and legal expenses. Interest and taxes. All other expenses.	\$4,008,218 \$1,214,554 \$293,755	\$2,204,939 \$1,190,308 \$247,379	81.8 2.0 18.7
Balance sheet: Assets, total Construction and equipment Stocks and bonds of other compa-	\$107, 583, 155 \$78, 136, 115	\$95,624,892 \$77,438,339	12.5 0.9
nies, treasury stock, and "other permanent investments"	\$16,811,087	\$12,971,564	29.6
Cash and current assets, including supplies a Liabilities, total. Capital stock. Funded debt. Reserves. Accounts payable. Dividends due and sundries.	\$55,489,400 \$28,000,000 \$15,549,451 \$1,459,797	\$5,214,989 \$95,624,892 \$52,800,000 \$22,000,000 \$6,381,105 4 \$2,495,241 6 \$2,452,351 \$3,496,195	142.3 12.5 5.1 143.7 -41.5 139.5 85.5
Capitalization: Capital stock outstanding, par value Dividends on stock. Funded debt Employees and salaries and wages: Average number. Salaries and wages.	\$28,000,000	\$52,800,000 \$2,533,041 \$28,000,000 1,207 \$915,083	

¹ A minus sign (—) denotes decrease.

² Doesnot include returns for Western Union Telegraph Company, as no segregation could be made of financial statistics or employees for the cable business of this company. The number of nautical miles of ocean cable owned and leased by this company was, in 1912, 22,816 miles, and in 1907, 5,729 miles. The number of ocean messages reported by this company for 1912 was 2,996,112, and as estimated by it for 1907, 3,500,000.

⁸ Includes sinking and other special funds and sundries for 1912 and sundries only for 1907.

only for 1907.
Includes floating debt.
Includes interest due and accrued.
Number employed Sept. 16, 1912.

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TELEPHONES AND TELEGRAPHS.

Table 6.—Ocean Cable Telegraph Systems—Revenue and Income Account: 1912 and 1907.

	1912	1907	Per cent of in- crease.1
Gross receipts from operation. Operating expenses. Net earnings from operation Income from other sources. Gross income less operating expenses. Deductions from income (fixed charges). Taxes. Interest. Payments for use of leased lines. Net income. Dividends on stock. Surplus.	\$8, 065, 798 4, 214, 264 3, 851, 534 403, 576 4, 255, 110 1, 302, 263 54, 554 1, 160, 000 87, 709 2, 952, 847 3, 040, 200 (2)	\$7,338,280 2,373,339 4,964,941 333,420 5,298,361 1,269,287 30,308 1,160,000 78,979 4,029,074 2,533,041 1,496,033	9. 9 77. 6 -22. 4 21. 0 -19. 7 2. 6 80. 0 11. 1 -26. 7 20. 0

¹ A minus sign (~) denotes decrease.

² Deficit of \$87,353.

Table 7.—Ocean Cable Telegraph Systems—Operating Expenses: 1912 and 1907.

	1912	1907	Per cent of in- crease.
Total	\$4,214,264	\$2,373,339	77.6
General operation and maintenance. Salaries and wages. Operation and maintenance, including	4,008,218	2, 204, 939	81. 8
	1,167,014	915, 083	27. 5
legal expenses. Rentals of offices and other real estate Miscellaneous 1	2, 841, 204	1, 289, 856	120.3
	104, 748	87, 896	19.2
	101, 298	80, 504	25.8

 $^{\rm I}$ Includes also rentals of conduits and underground privileges and payments for telegraph traffic made to other companies.

TABLE 8.—WIRELESS TELEGRAPH SYSTEMS: 1912 AND 1907.

	1912	1907	Per cent of in- crease, 1
Number of companies or systems Number of messages	. 285,091		
Number of tower stations. Income, total Net income.	. \$669, 158	\$106, 791	-36.8 526.6
Expenses, total	\$664, 420		814.4
including salaries and wages and legal expenses. Interest and taxes	\$588,712 \$7,826	\$117, 480 \$5, 562	401.1
All other expenses Net deficit Balance sheet:	\$67,882	\$37, 287 \$53, 538	82.1
Assets, total	\$10, 377, 197 \$1, 205, 770	\$32, 958, 897 \$317, 614	-68.5 279.6
Cash and current assets, including supplies 4. Net deficit.	\$ 9, 171, 4 27	\$32, 196, 456 \$444, 827	-71.5
Liabilities, total. Capital stock. Floating debt and mortgages	\$10, 377, 197 \$9, 602, 570 \$18, 483	\$32, 958, 897 \$32, 676, 242 \$37, 145	-68.5 -70.6
Accounts payable	\$583, 160 \$172, 984	\$245, 510	-50.2 137.5
Capital stock outstanding, par value Employees and salaries and wages:	\$9, 6 02, 570	\$32, 676, 242	-70.6
A verage number	\$393,606	\$81,771	444.3 381.4

1 A minus sign (—) denotes decrease.
2 Includes 5,013 land messages sent over a leased land wire by a wireless company doing land telegraph business also.
3 Less all expenses, including charges for depreciation.
4 Includes stocks, bonds, and sundries.
5 Includes reserves, cash investments, interest and taxes due and accrued, and sundries.

stundries.

Number employed Sept. 16, 1912. Includes, in some cases, number of operators on shipboard who, in addition to wages, receive board and quarters.

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